

1 Claims

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3 1. A monitoring unit for the outside in a motor vehicle's di-
4 rection of travel, which unit includes at least one camera
5 system having an image-recording sensor (10) having color
6 coding (R, G, B, Y, ...) in partial areas (11, 12, 13) but
7 otherwise monochrome coding (B/W).

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9 2. The monitoring unit as claimed in claim 1 wherein color
10 coding (R, G, B, Y, ...) of vertical stripes and/or areas
11 (11) on the right-hand image edge of the sensor (10) is
12 provided.

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14 3. The monitoring unit as claimed in claim 1 or 2 wherein
15 color coding (R, G, B, Y, ...) of vertical stripes and/or
16 areas (12) on the left-hand image edge of the sensor (10)
17 is provided.

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19 4. The monitoring unit as claimed in one of claims 1 to 3
20 wherein color coding (R, G, B, Y, ...) of horizontal
21 stripes and/or areas (13) on the bottom image edge of the
22 sensor (10) is provided.

23
24 5. The monitoring unit as claimed in claim 4 wherein the
25 color coding (R, G, B, Y, ...) on the bottom image edge of
26 the sensor (10) coincides with the area in which the cam-
27 era has a view onto the road directly over a customary
28 automobile's hood.

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30 6. The monitoring unit as claimed in one of the preceding
31 claims wherein the color-coded stripes and/or areas (11,
32 12, 13) are embodied as a single color (R; Y; ...).

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- 1 7. The monitoring unit as claimed in claim 6 wherein the ver-
2 tical stripes and/or areas (11, 12) have red (R) color
3 coding.
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- 5 8. The monitoring unit as claimed in claim 6 or 7 wherein the
6 horizontal stripes and/or areas (13) have yellow (Y) color
7 coding.
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- 9 9. The monitoring unit as claimed in one of the preceding
10 claims wherein the color-coded stripes and/or areas (11,
11 12, 13) are embodied as a combination of two colors (R,
12 G).
13
- 14 10. The monitoring unit as claimed in claim 8 or 9 wherein the
15 vertical stripes and/or areas (11, 12) have red (R) and
16 green (G) color coding.
17
- 18 11. The monitoring unit as claimed in one of the preceding
19 claims wherein the color-coded stripes and/or areas (11,
20 12, 13) are embodied as the Bayer pattern (R, G, B).
21
- 22 12. The monitoring unit as claimed in one of the preceding
23 claims wherein the ratio of monochrome coding (B/W) to
24 partial color coding is 60:40%; preferably 75:25%, in par-
25 ticular 80:20%.
26
- 27 13. An assistance system for motor vehicles, in particular for
28 traffic-sign and/or traffic-lane registering, having at
29 least one monitoring unit as claimed in one of the preced-
30 ing claims that registers the outside in the motor vehi-
31 cle's direction of travel.